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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts HH, ZZZZ, and DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter

113, Subchapter C, §§ 113.390, 113.1090, and 113.1130, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

- F. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 101.372 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
 - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
 - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
 - (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
- 3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
 - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity

averaged over a six minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:

- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(1)(E)
- (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
 - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
 - (3) Records of all observations shall be maintained.
 - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet

prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.

- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
 - (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- C. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)

- (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- E. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.205 (relating to Exception for Fire Training)
 - (ii) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (iii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (iv) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 5. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 6. For oil and natural gas production facilities as specified in 40 CFR Part 63, Subpart HH, the permit holder shall comply with the following requirements (Title 30 TAC Chapter 113, Subchapter C, § 113.390 incorporated by reference):
 - A. Title 40 CFR § 63.760(a)(1)(i) - (iii) (relating to Applicability and Designation of Affected Source)
 - B. Title 40 CFR § 63.775(d)(9) (relating to Reporting Requirements)
- 7. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local

air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

Additional Monitoring Requirements

8. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:
 - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.
 - E. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

New Source Review Authorization Requirements

9. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
10. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

11. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

12. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
13. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Risk Management Plan

14. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

Protection of Stratospheric Ozone

15. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Alternative Requirements

16. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from the TCEQ Executive Director, demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

17. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit at Amarillo Office, 6900 West I-40, Suite 260, Amarillo, Texas 79106.

Permit Shield (30 TAC § 122.148)

18. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Alternative Requirement

Applicable Requirements Summary

Unit Summary	12
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Applicable Requirements Summary	14
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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
EP-10	FLARES	N/A	R1111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
EP-10	FLARES	N/A	60A	40 CFR Part 60, Subpart A	No changing attributes.
EP-13	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.
EP-14	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
EP-15	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc	40 CFR Part 60, Subpart Dc	No changing attributes.
EP-15	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.
EP-16	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.
EP-17	GLYCOL DEHYDRATION	N/A	63HH-2	40 CFR Part 63, Subpart HH	No changing attributes.
EP-9	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	60Dc	40 CFR Part 60, Subpart Dc	No changing attributes.
EP-9	BOILERS/STEAM GENERATORS/STEAM GENERATING UNITS	N/A	63DDDDD	40 CFR Part 63, Subpart DDDDD	No changing attributes.
FUG	FUGITIVE EMISSION UNITS	N/A	60KKKALL	40 CFR Part 60, Subpart KKK	No changing attributes.
FUG	FUGITIVE EMISSION UNITS	N/A	63HH-1	40 CFR Part 63, Subpart HH	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
FUG-OOOOA	FUGITIVE EMISSION UNITS	N/A	60OOOOa	40 CFR Part 60, Subpart OOOOa	No changing attributes.
PROS-1	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	R200	30 TAC Chapter 112, Sulfur Compounds	No changing attributes.
PROS-1	GAS SWEETENING/SULFUR RECOVERY UNITS	N/A	60LLL	40 CFR Part 60, Subpart LLL	No changing attributes.
TEG UNIT	GLYCOL DEHYDRATION	N/A	63HH-1	40 CFR Part 63, Subpart HH	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EP-10	EU	R1111-1	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period. Non-excessive upset events are subject to the provisions under §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None
EP-10	CD	60A	Opacity	40 CFR Part 60, Subpart A	§ 60.18(b) § 60.18(c)(1) § 60.18(c)(2) § 60.18(c)(3)(ii) § 60.18(c)(5) § 60.18(c)(6) § 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(6)	None	None
EP-13	EU	63DDDDD	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
EP-14	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
EP-15	EU	60Dc	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
EP-15	EU	60Dc	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
EP-15	EU	60Dc	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
EP-15	EU	63DDDDD	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
EP-16	EU	63DDDDD	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					specification requirements of 40 CFR Part 63, Subpart DDDDD		CFR Part 63, Subpart DDDDD	DDDDD	
EP-17	EU	63HH-2	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.765(b)(1)(iii) § 63.764(a) § 63.764(j) § 63.765(b)(1)(iii)(D)	The owner or operator must limit BTEX emissions from each new small glycol dehydration unit process vent, as defined in §63.761, to the limit determined in Equation 2 of this section. The limits determined using Equation 2 must be met in accordance with one of the alternatives specified in paragraphs (b)(1)(iii)(A) through (D) of this section.	[G]§ 63.772(b)(2) [G]§ 63.772(d)(2)	§ 63.771(e)(1) § 63.771(e)(3)(i) [G]§ 63.774(b)(1) § 63.774(b)(10) § 63.774(b)(11) § 63.774(b)(2) § 63.774(g)	§ 63.764(b) § 63.775(b)(4) § 63.775(b)(5) § 63.775(b)(6) § 63.775(d) § 63.775(d)(10) § 63.775(d)(7) § 63.775(e) § 63.775(e)(1) [G]§ 63.775(f)
EP-9	EU	60Dc	PM	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
EP-9	EU	60Dc	PM (Opacity)	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29 megawatts (MW).	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)
EP-9	EU	60Dc	SO ₂	40 CFR Part 60, Subpart Dc	§ 60.40c(a)	This subpart applies to each steam generating unit constructed, reconstructed, or modified after 6/9/89 and that has a maximum design heat input capacity of 2.9-29	None	§ 60.48c(g)(1) § 60.48c(g)(2) § 60.48c(g)(3) § 60.48c(i)	[G]§ 60.48c(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						megawatts (MW).			
EP-9	EU	63DDDDD	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-3(a) [G]§ 60.482-3(b) § 60.482-3(c) § 60.482-3(d) § 60.482-3(e)(1) § 60.482-3(e)(2) § 60.482-3(f) § 60.482-3(g)(1) § 60.482-3(g)(2) § 60.482-3(h) [G]§ 60.482-3(i) § 60.482-3(j) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Comply with the requirements for compressors as stated in §60.482-3 and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-3(e)(1) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-4(a) § 60.482-4(b)(1) § 60.482-4(c) § 60.482-4(d)(1) § 60.482-4(d)(2) § 60.482-9(a)	Comply with the requirements for pressure relief devices in gas/vapor service as stated in §60.482-4 and 60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-4(b)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d) § 60.633(b)(1)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(3) [G]§ 60.486(e)(4) § 60.486(j) [G]§ 60.633(b)(4) [G]§ 60.635(b)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-9(b) § 60.486(k) [G]§ 60.633(b)(3)		§ 60.633(b)(2) [G]§ 60.633(b)(3) [G]§ 60.633(b)(4)		
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(f)	The owner/operator shall demonstrate that equipment is not in VOC service or not in wet gas service in accordance with §60.632(f).	§ 60.632(f)	§ 60.632(f)	None
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(d) § 60.486(k)	Equipment in vacuum service to comply with §60.482-1(a), (b), and (d) and §60.482-2 to §60.482-10, except as provided in §60.633 or §60.482-1(d).	None	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(e)(5) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-2(b)(1) [G]§ 60.482-2(b)(2) § 60.482-2(c)(1) [G]§ 60.482-2(c)(2) § 60.482-2(d) [G]§ 60.482-2(d)(1) § 60.482-2(d)(2) § 60.482-2(d)(3) [G]§ 60.482-2(d)(4) [G]§ 60.482-2(d)(5) [G]§ 60.482-2(d)(6) [G]§ 60.482-2(e) § 60.482-2(f) [G]§ 60.482-2(g) § 60.482-2(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k)	Comply with the requirements for pumps in light liquid service as stated in §60.482-2 and §60.482-1(a), (b) and (d), except as provided in §60.633.	[G]§ 60.482-2(a) [G]§ 60.482-2(b)(2) [G]§ 60.482-2(d)(4) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) [G]§ 60.486(h) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.633(f)	Reciprocating compressors in wet gas service are exempt from the compressor control requirements of §60.482-3.	None	§ 60.486(j) § 60.635(c)	None
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) [G]§ 60.482-10(f) [G]§ 60.482-10(g) § 60.482-10(h) § 60.482-10(i) [G]§ 60.482-10(j) [G]§ 60.482-10(k) § 60.482-10(m) § 60.486(k)	Comply with the requirements for closed vent systems and control devices – closed vent systems - as stated in §60.482-10(g) and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.482-10(l) [G]§ 60.486(a) [G]§ 60.486(d) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Comply with the requirements for connectors as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-6(a)(1) § 60.482-6(a)(2) § 60.482-6(b) § 60.482-6(c) § 60.482-6(d) § 60.482-6(e) § 60.482-9(a)	Comply with the requirements for open-ended valves or lines as stated in §60.482-6 and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.486(a) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)				
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-7(b) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)	Comply with the requirements for valves in gas/vapor service as stated in §60.482-7 and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) § 60.485(f) § 60.632(d)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-7(b) § 60.482-7(d)(1) § 60.482-7(d)(2) [G]§ 60.482-7(e) [G]§ 60.482-7(f) [G]§ 60.482-7(g) [G]§ 60.482-7(h) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)	Comply with the requirements for valves in light liquid service as stated in §60.482-7 and §60.482-1(a), (b) and (d), except as provided in §60.633.	§ 60.482-7(a)(1) [G]§ 60.482-7(a)(2) § 60.482-7(c)(1)(i) § 60.482-7(c)(1)(ii) § 60.482-7(c)(2) § 60.485(a) [G]§ 60.485(b) [G]§ 60.485(c) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) [G]§ 60.486(e)(2) [G]§ 60.486(e)(4) [G]§ 60.486(f) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG	EU	60KKKALL	VOC	40 CFR Part 60,	§ 60.632(a)	Comply with the	§ 60.482-8(a)(1)	[G]§ 60.486(a)	§ 60.487(a)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
				Subpart KKK	§ 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(d) § 60.482-9(f) § 60.486(k)	requirements for pumps in heavy liquid service as stated in §60.482-8, except as provided in §60.633.	§ 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	[G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)	Comply with the requirements for valves in heavy liquid service as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e)
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) [G]§ 60.482-9(c) § 60.482-9(e) § 60.482-9(f) § 60.486(k)	Comply with the requirements for pressure relief devices in light liquid service as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)

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Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-9(b) § 60.486(k)				
FUG	EU	60KKKALL	VOC	40 CFR Part 60, Subpart KKK	§ 60.632(a) § 60.482-1(a) § 60.482-1(b) § 60.482-8(a) § 60.482-8(a)(2) § 60.482-8(b) § 60.482-8(c)(1) § 60.482-8(c)(2) § 60.482-8(d) § 60.482-9(a) § 60.482-9(b) § 60.486(k)	Comply with the requirements for pressure relief devices in heavy liquid service as stated in §60.482-8, except as provided in §60.633.	§ 60.482-8(a)(1) § 60.485(a) [G]§ 60.485(b) § 60.485(d)(2) § 60.485(d)(3) [G]§ 60.485(e) § 60.485(f) § 60.632(d) [G]§ 60.633(h)	[G]§ 60.486(a) [G]§ 60.486(b) [G]§ 60.486(c) § 60.486(e) § 60.486(e)(1) § 60.486(j)	§ 60.487(a) [G]§ 60.487(b) [G]§ 60.487(c) § 60.487(e) § 60.636(b) [G]§ 60.636(c)
FUG	EU	63HH-1	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.764(e)(2)(i) § 63.764(a) § 63.764(e)(2) § 63.764(j)	Any ancillary equipment or compressors that contain or contact a fluid with a total VHAP concentration of <10% by weight are exempt from the equipment leak requirements of § 63.764(c)(3).	[G]§ 63.772(a)	§ 63.774(d)(2) § 63.774(d)(2)(i)	None
FUG-OOOOA	EU	60OOOOa	VOC	40 CFR Part 60, Subpart OOOOa	§ 60.5400a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-7a(a)(1) § 60.482-7a(b) [G]§ 60.482-7a(d) [G]§ 60.482-7a(e) [G]§ 60.482-7a(f) [G]§ 60.482-7a(g) [G]§ 60.482-7a(h) § 60.485a(f) § 60.5370a(a) § 60.5370a(b) § 60.5400a(d) § 60.5400a(e) § 60.5400a(f)	Except as provided in §60.5401 valves in gas/vapor service or light liquid service must comply with the requirements of §60.482-7a. At a valve in gas/vapor service or light liquid service, if an instrument reading of 500 ppm or greater is measured, a leak is detected.	§ 60.482-1a(f)(1) § 60.482-1a(f)(2) [G]§ 60.482-1a(f)(3) § 60.482-7a(a)(1) [G]§ 60.482-7a(a)(2) § 60.482-7a(b) [G]§ 60.482-7a(c) [G]§ 60.482-7a(f) [G]§ 60.482-7a(g) [G]§ 60.482-7a(h) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) § 60.485a(d)	§ 60.485a(b)(2) § 60.486a(a)(1) § 60.486a(a)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(2) [G]§ 60.486a(e)(4) [G]§ 60.486a(e)(8) § 60.486a(f) § 60.486a(f)(1) § 60.486a(f)(2)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(2) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(ii) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) § 60.5420a(a) § 60.5420a(a)(1) § 60.5422a(a)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.5410a § 60.5410a(f) § 60.5415a(f)		§ 60.485a(d)(2) § 60.485a(d)(3) [G]§ 60.485a(e) [G]§ 60.5401a(f) § 60.5401a(g)		
FUG-OOOOA	EU	600000a	VOC	40 CFR Part 60, Subpart OOOOa	§ 60.5400a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-4a(a) § 60.482-4a(b)(1) § 60.482-4a(c) § 60.482-4a(d)(1) § 60.482-4a(d)(2) § 60.482-9a(a) § 60.482-9a(b) § 60.485a(f) § 60.5370a(a) § 60.5370a(b) § 60.5400a(d) § 60.5400a(e) § 60.5400a(f) § 60.5401a(b)(2) § 60.5401a(b)(3)(i) § 60.5401a(b)(3)(ii) § 60.5401a(b)(4)(ii) § 60.5410a § 60.5410a(f) § 60.5415a(f)	Except as provided in §60.5401 pressure relief device in gas/vapor service must comply with the requirements of §60.482-4a. Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in §60.485a(c).	§ 60.482-4a(b)(2) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) § 60.485a(d) § 60.485a(d)(2) § 60.485a(d)(3) § 60.5401a(b)(1) § 60.5401a(b)(4)(i) § 60.5401a(b)(4)(ii) [G]§ 60.5401a(f) § 60.5401a(g)	§ 60.485a(b)(2) § 60.486a(a)(1) § 60.486a(a)(2) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(10) § 60.486a(e)(3) [G]§ 60.486a(e)(4) [G]§ 60.486a(e)(8) § 60.486a(f) § 60.486a(f)(1) [G]§ 60.5421a(b)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) § 60.5420a(a) § 60.5420a(a)(1) § 60.5422a(a) § 60.5422a(b) [G]§ 60.5422a(c)
FUG-OOOOA	EU	600000a	VOC	40 CFR Part 60, Subpart OOOOa	§ 60.5400a(a) § 60.482-1a(a) § 60.482-1a(b) § 60.482-2a(a)(1) § 60.482-2a(a)(2) § 60.482-2a(b)(1) § 60.482-2a(b)(1)(i) § 60.482-2a(b)(1)(ii) § 60.482-2a(b)(2)	Except as provided in §60.5401 pumps in light liquid service must comply with the requirements of §60.482-2a. The instrument reading that defines a leak in a pump in light liquid service is 5,000 parts per million (ppm) or greater for pumps handling	§ 60.482-1a(f)(1) § 60.482-1a(f)(2) [G]§ 60.482-1a(f)(3) § 60.482-2a(b)(2)(i) [G]§ 60.482-2a(d)(4) [G]§ 60.482-2a(d)(5) [G]§ 60.482-2a(e) [G]§ 60.482-2a(g)	§ 60.485a(b)(2) § 60.486a(a)(1) § 60.486a(a)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(2) [G]§ 60.486a(e)(4)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(3) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(i) § 60.487a(c)(2)(iii) § 60.487a(c)(2)(iv)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-2a(b)(2)(ii) § 60.482-2a(c)(1) [G]§ 60.482-2a(c)(2) § 60.482-2a(d) [G]§ 60.482-2a(d)(1) § 60.482-2a(d)(2) § 60.482-2a(d)(3) [G]§ 60.482-2a(d)(6) [G]§ 60.482-2a(e) [G]§ 60.482-2a(g) § 60.482-9a(a) § 60.482-9a(b) [G]§ 60.482-9a(d) § 60.482-9a(f) § 60.485a(f) § 60.5370a(a) § 60.5370a(b) § 60.5400a(d) § 60.5400a(e) § 60.5400a(f) § 60.5410a § 60.5410a(f) § 60.5415a(f)	polymerizing monomers or 2,000 ppm or greater for all other pumps, as specified in paragraphs 60.482-2a(b)(1)(i) and 60.482-2a(b)(1)(ii).	§ 60.482-2a(h) § 60.482-7a(a)(1) [G]§ 60.482-7a(a)(2) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(c)(2) § 60.485a(d) § 60.485a(d)(2) § 60.485a(d)(3) [G]§ 60.485a(e) [G]§ 60.5401a(f) § 60.5401a(g)	§ 60.486a(e)(7) [G]§ 60.486a(e)(8) [G]§ 60.486a(h)	§ 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) § 60.5420a(a) § 60.5420a(a)(1) § 60.5422a(a)
FUG-OOOOA	EU	600000a	VOC	40 CFR Part 60, Subpart OOOOa	§ 60.5400a(a) § 60.482-1a(a) § 60.482-1a(b) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) § 60.482-8a(b) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a)	Except as provided in §60.5401 pressure relief devices in light liquid or heavy liquid service must comply with the requirements of §60.482-8a. At a pressure relief device in light liquid or heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(d) § 60.485a(d)(2) § 60.485a(d)(3) [G]§ 60.5401a(f) § 60.5401a(g)	§ 60.485a(b)(2) § 60.486a(a)(1) § 60.486a(a)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) § 60.5420a(a) § 60.5420a(a)(1)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-9a(b) § 60.485a(f) § 60.5370a(a) § 60.5370a(b) § 60.5400a(d) § 60.5400a(e) § 60.5400a(f) § 60.5410a § 60.5410a(f) § 60.5415a(f)			§ 60.5422a(a)	
FUG-OOOOA	EU	600000a	VOC	40 CFR Part 60, Subpart OOOOa	§ 60.5400a(a) § 60.482-1a(a) § 60.482-1a(b) [G]§ 60.482-2a(c)(2) [G]§ 60.482-7a(e) § 60.482-8a(a) § 60.482-8a(a)(2) § 60.482-8a(b) [G]§ 60.482-8a(c) § 60.482-8a(d) § 60.482-9a(a) § 60.482-9a(b) § 60.482-9a(c) § 60.482-9a(c)(1) § 60.482-9a(e) § 60.482-9a(f) § 60.485a(f) § 60.5370a(a) § 60.5370a(b) § 60.5400a(d) § 60.5400a(e) § 60.5400a(f) § 60.5410a § 60.5410a(f) § 60.5415a(f)	Except as provided in §60.5401 valves in heavy liquid service must comply with the requirements of §60.482-8a. At a valve in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.	§ 60.482-8a(a)(1) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(d) § 60.485a(d)(2) § 60.485a(d)(3) [G]§ 60.5401a(f) § 60.5401a(g)	§ 60.485a(b)(2) § 60.486a(a)(1) § 60.486a(a)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) § 60.5420a(a) § 60.5420a(a)(1) § 60.5422a(a)
FUG-OOOOA	EU	600000a	VOC	40 CFR Part 60, Subpart OOOOa	§ 60.5400a(a) § 60.482-11a(b)(2)	Except as provided in §60.5401 connectors in gas	§ 60.482-11a(a) § 60.482-11a(b)	§ 60.482-11a(b)(3)(v) § 60.482-11a(g)	§ 60.486a(a)(1) § 60.486a(a)(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
					§ 60.482-11a(c) § 60.482-11a(d) [G]§ 60.482-11a(e) [G]§ 60.482-11a(f)(1) § 60.482-11a(f)(2) § 60.482-11a(g) § 60.482-9a(a) § 60.482-9a(b) § 60.5370a(a) § 60.5370a(b) § 60.5400a(d) § 60.5400a(e) § 60.5400a(f) § 60.5410a § 60.5410a(f) § 60.5415a(f)	and vapor and light liquid service must comply with the requirements of §60.482-11a. If an instrument reading greater than or equal to 500 ppm is measured in connectors in gas and vapor and light liquid service, a leak is detected.	§ 60.482-11a(b)(1) § 60.482-11a(b)(3) § 60.482-11a(b)(3)(i) § 60.482-11a(b)(3)(ii) [G]§ 60.482-11a(b)(3)(iii) § 60.482-11a(b)(3)(iv) § 60.482-11a(c) [G]§ 60.482-11a(e) § 60.482-9a(a) § 60.485a(a) [G]§ 60.485a(b)(1) § 60.485a(b)(2) § 60.485a(d) § 60.485a(d)(2) § 60.485a(d)(3) [G]§ 60.485a(e) [G]§ 60.5401a(f) § 60.5401a(g)	§ 60.485a(b)(2) [G]§ 60.486a(a)(3) [G]§ 60.486a(b) [G]§ 60.486a(c) § 60.486a(e) § 60.486a(e)(1) [G]§ 60.486a(e)(8) § 60.486a(e)(9) § 60.486a(f) § 60.486a(f)(1)	§ 60.487a(a) § 60.487a(b) § 60.487a(b)(1) § 60.487a(b)(5) § 60.487a(c) § 60.487a(c)(1) § 60.487a(c)(2) § 60.487a(c)(2)(vii) § 60.487a(c)(2)(viii) § 60.487a(c)(2)(xi) § 60.487a(c)(3) § 60.487a(c)(4) § 60.487a(e) § 60.5420a(a) § 60.5420a(a)(1) § 60.5422a(a)
PROS-1	EU	R200	SO ₂	30 TAC Chapter 112, Sulfur Compounds	§ 112.7(a)	No person may cause, suffer, allow, or permit emissions of SO ₂ to exceed the emission limits specified for stack effluent flow rates less than or equal to 4,000 scfm as determined by the specified equation in §112.7(a).	§ 112.2(a) ** See CAM Summary	§ 112.2(c)	§ 112.2(b)
PROS-1	PRO	60LLL	SO ₂	40 CFR Part 60, Subpart LLL	§ 60.642(b) § 60.642(a)	After demonstrating compliance with Paragraph (a), the owner or operator shall achieve a minimum SO ₂ emission reduction efficiency, Zc, as	[G]§ 60.643(a)(1) § 60.643(a)(2) § 60.643(b) § 60.644(a) [G]§ 60.644(b) § 60.644(c)	§ 60.647(a)	§ 60.647(b) § 60.647(b)(1) § 60.647(b)(2)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						determined from Table 2.	§ 60.644(c)(1) § 60.644(c)(2) § 60.644(c)(3) § 60.644(c)(4) § 60.644(c)(4)(i) § 60.644(c)(4)(ii) § 60.644(c)(4)(iv) § 60.644(d) [G]§ 60.646(a) [G]§ 60.646(b) [G]§ 60.646(d) § 60.646(f) § 60.646(g) [G]§ 60.648 ** See Alternative Requirements		
TEG UNIT	EU	63HH-1	112(B) HAPS	40 CFR Part 63, Subpart HH	§ 63.765(b)(1)(iii) § 63.11(b) § 63.764(a) § 63.764(j) § 63.765(b)(1)(iii)(A) § 63.771(c)(1) § 63.771(c)(2) § 63.771(f)(1) § 63.771(f)(1)(iii) § 63.771(f)(2) § 63.771(f)(2)(i) § 63.771(f)(2)(ii) [G]§ 63.773(c)(3) § 63.773(c)(4) [G]§ 63.773(c)(6)	The owner or operator must limit BTEX emissions from each existing small glycol dehydration unit process vent, as defined in §63.761, to the limit determined in Equation 1 of this section. The limits determined using Equation 1 must be met in accordance with one of the alternatives specified in paragraphs (b)(1)(iii)(A) through (D) of this section.	[G]§ 63.772(c) § 63.772(d)(1) § 63.772(e) [G]§ 63.772(e)(2) § 63.772(e)(4)(ii) [G]§ 63.772(f) [G]§ 63.773(c)(2)(i) [G]§ 63.773(c)(2)(ii) [G]§ 63.773(d)(1) § 63.773(d)(3) § 63.773(d)(3)(i)(C) § 63.773(d)(3)(iii) § 63.773(d)(4) § 63.773(d)(6) § 63.773(d)(6)(i) § 63.773(d)(6)(iv) § 63.773(d)(7)	§ 63.771(e)(1) § 63.771(e)(2) § 63.771(e)(3)(i) [G]§ 63.774(b)(1) § 63.774(b)(10) § 63.774(b)(11) § 63.774(b)(2) [G]§ 63.774(b)(3) § 63.774(b)(4) § 63.774(b)(4)(i) § 63.774(b)(4)(ii)(A) § 63.774(b)(6) § 63.774(b)(7) § 63.774(b)(7)(i) § 63.774(b)(7)(ii) § 63.774(b)(7)(iii) § 63.774(b)(7)(iv) § 63.774(b)(7)(v) § 63.774(b)(7)(vi) § 63.774(b)(7)(vii) § 63.774(b)(7)(viii) § 63.774(g)	§ 63.764(b) [G]§ 63.773(c)(2)(i) [G]§ 63.773(c)(2)(ii) [G]§ 63.775(b)(1) § 63.775(b)(2) § 63.775(b)(3) § 63.775(b)(4) § 63.775(b)(5) § 63.775(b)(6) § 63.775(d) § 63.775(d)(10) § 63.775(d)(11) [G]§ 63.775(d)(2) § 63.775(d)(6) § 63.775(d)(7) § 63.775(e) § 63.775(e)(1) § 63.775(e)(2) § 63.775(e)(2)(i) § 63.775(e)(2)(ii) § 63.775(e)(2)(ii)(A) § 63.775(e)(2)(ii)(D)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
									§ 63.775(e)(2)(iii) [G]§ 63.775(e)(2)(vii) § 63.775(e)(2)(viii) § 63.775(e)(2)(x) § 63.775(e)(2)(xi) [G]§ 63.775(f) § 63.775(g)(1)

Additional Monitoring Requirements

Compliance Assurance Monitoring Summary 30

CAM Summary

Unit/Group/Process Information	
ID No.: PROS-1	
Control Device ID No.: EP-11	Control Device Type: Sulfur recovery unit with incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R200
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: Combustion Temperature/Exhaust Gas Temperature	
Minimum Frequency: Four Times per Hour	
Averaging Period: One Hour	
Deviation Limit: The minimum combustion temperature is 1100 degrees F.	
<p>CAM Text: The monitoring device should be installed in the combustion chamber or immediately downstream of the combustion chamber. Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of reading; or ± 2.5 degrees Celsius. 	

CAM Summary

Unit/Group/Process Information	
ID No.: PROS-1	
Control Device ID No.: EP-11	Control Device Type: Sulfur recovery unit with incinerator
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 112, Sulfur Compounds	SOP Index No.: R200
Pollutant: SO ₂	Main Standard: § 112.7(a)
Monitoring Information	
Indicator: SO ₂ Mass Emissions in Pounds per Hour	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: The maximum SO ₂ mass emission rate is 307.6 lb/hr.	
CAM Text: Use a continuous emission monitoring system (CEMS) to measure and record the mass emissions rate of sulfur dioxide expressed in pounds per hour in the exhaust stream of the control device. The CEMS shall be operated in accordance with the monitoring requirements of 40 CFR § 60.13 and the Performance Specifications of 40 CFR Part 60, Appendix B.	

Permit Shield

Permit Shield 33

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
EP-1	N/A	40 CFR Part 63, Subpart ZZZZ	Engines are exempt from the requirements because they are lean burn engines constructed or reconstructed before December 19, 2002.
EP-2	N/A	40 CFR Part 63, Subpart ZZZZ	Engines are exempt from the requirements because they are lean burn engines constructed or reconstructed before December 19, 2002.
EP-3	N/A	40 CFR Part 63, Subpart ZZZZ	Engines are exempt from the requirements because they are lean burn engines constructed or reconstructed before December 19, 2002.
EP-4	N/A	40 CFR Part 63, Subpart ZZZZ	Engines are exempt from the requirements because they are lean burn engines constructed or reconstructed before December 19, 2002.
EP-5	N/A	40 CFR Part 63, Subpart ZZZZ	Engines are exempt from the requirements because they are lean burn engines constructed or reconstructed before December 19, 2002.
EP-6	N/A	40 CFR Part 63, Subpart ZZZZ	Engines are exempt from the requirements because they are lean burn engines constructed or reconstructed before December 19, 2002.
EP-7	N/A	40 CFR Part 63, Subpart ZZZZ	Engines are exempt from the requirements because they are lean burn engines constructed or reconstructed before December 19, 2002.
EP-8	N/A	40 CFR Part 63, Subpart ZZZZ	Engines are exempt from the requirements because they are lean burn engines constructed or reconstructed before December 19, 2002.

New Source Review Authorization References

New Source Review Authorization References	35
New Source Review Authorization References by Emission Unit	36

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX787M2	Issuance Date: 01/23/2019
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 20418	Issuance Date: 01/23/2019
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 34	Version No./Date: 09/12/1989
Number: 66	Version No./Date: 07/20/1992
Number: 66	Version No./Date: 05/04/1994
Number: 66	Version No./Date: 06/07/1996
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.352	Version No./Date: 03/14/1997
Number: 106.352	Version No./Date: 09/04/2000
Number: 106.352	Version No./Date: 11/22/2012
Number: 106.355	Version No./Date: 11/01/2001
Number: 106.359	Version No./Date: 09/10/2013
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.492	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.512	Version No./Date: 09/04/2000
Number: 118	Version No./Date: 05/04/1994

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
EP-1	CM-1 RECIPROCATING ENGINE	20418, PSDTX787M2
EP-10	FLARE	20418, PSDTX787M2
EP-13	AUXILIARY BOILER	20418, PSDTX787M2
EP-14	EMERGENCY DIESEL GENERATOR	20418, PSDTX787M2, 106.511/09/04/2000
EP-15	STABILIZER HEATER	106.352/11/22/2012
EP-16	TEG REBOILER	106.352/11/22/2012
EP-17	TEG DEHYDRATION UNIT	106.352/11/22/2012
EP-2	CM-2 RECIPROCATING ENGINE	20418, PSDTX787M2
EP-3	CM-3 RECIPROCATING ENGINE	20418, PSDTX787M2
EP-4	CM-4 RECIPROCATING ENGINE	20418, PSDTX787M2
EP-5	CM-5 RECIPROCATING ENGINE	20418, PSDTX787M2
EP-6	CM-6 RECIPROCATING ENGINE	20418, PSDTX787M2
EP-7	CM-7 RECIPROCATING ENGINE	20418, PSDTX787M2
EP-8	CM-8 RECIPROCATING ENGINE	20418, PSDTX787M2
EP-9	HOT OIL HEATER	20418, PSDTX787M2
FUG	FUGITIVES	20418, PSDTX787M2
FUG-OOOOA	PROJECT FUGITIVES	106.352/11/22/2012
PROS-1	PROS-1	20418, PSDTX787M2
TEG UNIT	TEG UNIT	20418, PSDTX787M2

Alternative Requirement

Alternative Requirement..... 38

Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

September 21, 2018

MR CHRIS HANSEN
ENVIRONMENTAL MANAGER
ETC TEXAS PIPELINE LTD
8111 WESTCHESTER DR STE 600
DALLAS TX 75225-6142

Re: Alternative Method of Compliance (AMOC) No. 115
ETC Sunray Gas Plant
Alternate Monitoring H₂S under NSPS LLL
Regulated Entity Number: RN100213628
Customer Reference Number: CN603263823
Associated Permit Numbers: 20418, PSDTX787M2, and O629

Dear Mr. Hansen:

This correspondence is in response to ETC Field Services LLC's (ETC's) request for the Sunray Gas Plant to use an alternate monitoring method for H₂S and use an AMOC to comply with 40 CFR 60, Subpart LLL— Standards of Performance for SO₂ Emissions from Onshore Natural Gas Processing for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011 (NSPS LLL).

We understand that ETC is requesting to use an infrared / ultraviolet (IR/UV) full spectrum analyzer for continuous demonstration of compliance with the H₂S concentration in the acid gas feed from the methyldiethanolamine (MDEA) sweetening unit at the Sunray Gas Plant instead of the daily Tutwiler method. The company is requesting this alternative under §63.644(b) to increase responsiveness, accuracy, and improve worker safety. ETC has provided detailed information on the proposed AMETEK Model IPS-4 analyzer and shown its use to be equivalent to (and better than) the rule specified Tutwiler method.

The Texas Commission on Environmental Quality (TCEQ) Executive Director has made a final decision to approve your AMOC request. The TCEQ has been delegated authority to enforce the above cited standards and is authorized to approve this AMOC. You are reminded that approval of any AMOC shall not abrogate the Executive Director or Administrator's authority under the Act or in any way prohibit later canceling the AMOC. By copy of this letter we are informing the Environmental Protection Agency, Region 6, of this decision as required by TCEQ's delegation of authority.

This AMOC approval may supersede certain requirements or representations in Permit Nos. 20418 and PSDTX787M2. To ensure effective and consistent enforceability, we request that ETC incorporate this AMOC into the permit(s) through submittal of alteration(s) no later than 90 days after this approval.

This approval may also change applicable requirements for the site, which are identified in the site operating permit (SOP) O629. The TCEQ recommends the submittal of a SOP administrative revision if any changes are necessary. Changes meeting the criteria for an administrative revision can be operated before issuance of the revision if a complete application is submitted to the TCEQ and this information is maintained with the SOP records at the site.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512-239-1000 • tceq.texas.gov

How is our customer service? tceq.texas.gov/customersurvey
printed on recycled paper

September 21, 2018
Page 2
Mr. Chris Hansen

Re: Permit Numbers: 20418, PSDTX787M2, and O629

If you need further information or have any questions, please contact Ms. Anne Inman, P.E. at (512) 239-1276 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

This action is taken under authority delegated by the Executive Director of the TCEQ.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Wilson".

Michael Wilson, P.E., Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

cc: Mr. Larry Sexson, Energy Transfer Field Services
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection
Agency, Region 6, Dallas
Air Section Manager, Region 01 - Amarillo
Rebecca Partee, Manager, Chemical Section, Air Permits Division, OA: MC-163
Jesse Chacon, Manager, Operating Permits Section, Air Permits Division, OA: MC-163

Project Number: 286822

Appendix A

Acronym List 41

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
COMS	continuous opacity monitoring system
CVS	closed vent system
D/FW	Dallas/Fort Worth (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MACT	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	Million British thermal units per hour
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO _x	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PEMS	predictive emissions monitoring system
PM	particulate matter
ppmv	parts per million by volume
PRO	process unit
PSD	prevention of significant deterioration
psia	pounds per square inch absolute
SIP	state implementation plan
SO ₂	sulfur dioxide
TCEQ	Texas Commission on Environmental Quality
TSP	total suspended particulate
TVP	true vapor pressure
U.S.C.	United States Code
VOC	volatile organic compound

Appendix B

Major NSR Summary Table 43

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
EP-1	CM-1 Reciprocating Engine	NO _x	8.27	36.21	2, 15, 16, 18	16, 18, 20	16, 18
		CO	8.82	38.62			
		VOC	1.10	4.83			
		SO ₂	0.01	0.05			
		PM	0.18	0.78			
EP-2	CM-2 Reciprocating Engine	NO _x	8.27	36.21	15, 16, 18	16, 18, 20	16, 18
		CO	8.82	38.62			
		VOC	1.10	4.83			
		SO ₂	0.01	0.05			
		PM	0.18	0.78			
EP-3	CM-3 Reciprocating Engine	NO _x	8.27	36.21	2, 15, 16, 18	16, 18, 20	16, 18
		CO	8.82	38.62			

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		VOC	1.10	4.83			
		SO ₂	0.01	0.05			
		PM	0.18	0.78			
EP-4	CM-4 Reciprocating Engine	NO _x	8.27	36.21	2, 15, 16, 18	16, 18, 20	16, 18
		CO	8.82	38.62			
		VOC	1.10	4.83			
		SO ₂	0.01	0.05			
		PM	0.18	0.78			
EP-5	CM-5 Reciprocating Engine	NO _x	8.27	36.21	2, 15, 16, 18	16, 18, 20	16, 18
		CO	8.82	38.62			
		VOC	1.10	4.83			
		SO ₂	0.01	0.05			

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM	0.18	0.78			
EP-6	CM-6 Reciprocating Engine	NO _x	4.46	19.55	2, 15, 16, 18	16, 18, 20	16, 18
		CO	8.93	39.11			
		VOC	0.60	2.61			
		SO ₂	0.01	0.03			
		PM	0.10	0.44			
EP-7	CM-7 Reciprocating Engine	NO _x	4.46	19.55	2, 15, 16, 18	16, 18, 20	16, 18
		CO	8.93	39.11			
		VOC	0.60	2.61			
		SO ₂	0.01	0.03			

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		PM	0.10	0.44			
EP-8	CM-8 Reciprocating Engine	NO _x	4.46	19.55	2, 15, 16, 18	16, 18, 20	16, 18
		CO	8.93	39.11			
		VOC	0.60	2.61			
		SO ₂	0.01	0.03			
		PM	0.10	0.44			
EP-9	Heater (7)	NO _x	1.56	6.83	2, 15		
		CO	1.04	4.56			
		VOC	0.13	0.57			
		SO ₂	0.03	0.11			
		PM	0.29	1.25			

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
EP-10	Flare	NO _x	1.12	0.19	2, 4, 6, 7, 10, 19	4, 7, 20	4
		CO	9.59	1.61			
		VOC	0.04	0.01			
		SO ₂	2,555.87	202.00			
		H ₂ S	27.14	2.19			
EP-11	SRU Incinerator	NO _x	0.43	1.88	2, 4, 6, 9, 11, 17, 19	4, 11, 17, 20	4, 17
		CO	2.50	10.95			
		VOC	0.01	0.01			
		SO ₂	38.50	168.63			
		H ₂ S	0.04	0.18			
		CS ₂	0.01	0.05			
		COS	0.01	0.01			
EP-11	SRU Incinerator (5)	NO _x	0.43	0.04	2, 4, 6, 9, 10, 11, 17,	4, 11, 17, 20	4, 17

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
		CO	2.50	0.22	19		
		VOC	0.01	0.01			
		SO ₂	72.40	6.35			
		H ₂ S	0.04	0.01			
		CS ₂	0.01	0.01			
		COS	0.01	0.01			
EP-12	Tank Truck Loading	VOC	1.01	0.01	2		
EP-13	Auxiliary Boiler	NO _x	0.27	1.19	2		
		CO	0.23	1.00			
		VOC	0.02	0.07			
		SO ₂	0.01	0.01			
		PM	0.02	0.09			

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
EP-14	Emergency Diesel Generator	NO _x	8.86	0.89	2		
		CO	0.72	0.07			
		VOC	0.23	0.02			
		SO ₂	0.81	0.08			
		PM	0.89	0.10			
WT-2	Amine Wastewater Tank	VOC	0.21	0.01	2		
WT-3	Slop Oil Tank	VOC	0.10	0.01	2		
WT-4	MDEA Wastewater Tank	VOC	0.24	0.01	2		
FUG	Fugitive (4)	VOC	3.481	15.245	4, 5, 14	4, 14, 20	4
		H ₂ S	0.02	0.07			
A001	Fugitives, West Panhandle Separator Porus Media Filter (7/29/1993)(6)	VOC	0.09	0.38			
		H ₂ S	0.01	0.01			

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
A001	Fugitives, MDEA Flash Tank (11/14/1994)(6)	VOC	0.01	0.03			
		H ₂ S	0.01	0.02			
A001	Fugitives, 213 Aerial Cooler (3/24/1995)(6)	VOC	0.02	0.08			
A001	Fugitives, Propane Aerial Cooler (05/05/1995)(6)	VOC	0.01	0.05			
A001	Fugitives, Anadarko Gas Processing (8/1/2002)(6)	VOC	0.02	0.10			
A001	Fugitives, NGL Contactor (8/11/1999)(6)	VOC	0.01	0.01			
EP-11	NGL Contactor (8/11/1999)(6)	SO ₂	2.15	9.40			
A001	Fugitives, NGL Pump Replacement (8/1/2002)(6)	VOC	0.02	0.09			

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
EP-10	Flare (dehy still, educator, Dermie Cold Box and MSS; 09/26/2014; PBR No. 51610)(6)	VOC	501.64	22.23			
		SO ₂	1,154.51	24.89			
		NO _x	250.01	17.45			
		CO	499.11	34.83			
		H ₂ S	12.53	0.27			
FUG	Fugitives, Flare (dehy, still, educator, Derime Cold Box and MSS; 09/26/2014; PBR No. 51610)(6)	VOC	0.08	0.36			
AFT-1	Anitfoulant Tank (4/8/2002)(6)	VOC	0.01	0.01			
DT-1	Diesel Tank (12/3/2002)(6)	VOC	0.01	0.01			
PW-1	Parts Washer (11/14/2002)(6)	VOC	0.01	0.01			
LOT-1	Lube Oil Tank (12/3/2002)(6)	VOC	0.01	0.01			

Major NSR Summary Table

Permit Numbers: 20418 and PSDTX787M2					Issuance Date: 01/23/2019		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (8)	Special Condition/Application Information	Special Cond/Application Information	Special Condition/Application Information
EGT-1	Antifreeze Tank (12/3/2002)(6)	VOC	0.01	0.01			
MT-1	Methanol Tanks (12/3/2002)(6)	VOC	0.04	0.15			
LAB001	Lab Vent (3/1/1992)(6)	VOC	0.01	0.01			
		H ₂ S	0.02	0.07			
EP-14	Emergency Diesel Generator(6)	NO _x	8.86	2.99			
		CO	0.72	0.24			
		VOC	0.23	0.08			
		SO ₂	0.81	0.27			
		PM	0.89	0.29			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide

PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
CO	- carbon monoxide
H ₂ S	- hydrogen sulfide
C ₂ S	- carbon disulfide
COS	- carbonylsulfide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emission rates for SRU Incinerator for those times when the TGPU is down and the SRU continues to process acid gas (limited to 175 hours per year on 12-month rolling basis) as outlined in Special Condition No. 10.
- (6) EPN: EP 10, EPN: FUG (Flare: dehy still, eductor, Derime Cold Box and MSS) are authorized under Permit by Rule Number 51610. EPN: EP-11 and EPN: FUG (NGL Contactor) are authorized under Permit by Rule Number 42106. EPN: A001 Fugitives from West Panhandle Filter Separator are authorized under Standard Exemption X23077. EPN: A001 MDEA Flash Tank and Fugitives are authorized under Standard Exemption X27053. EPN: A001 Fugitives from 213 Aerial Cooler are authorized under Standard Exemption X28862. EPN: A001 Fugitives from the Propane Aerial Cooler, are authorized under a non-registered Standard Exemption 66. EPN: PW-1 PartsWasher are authorized under a non-registered PBR Claim § 106.454. EPN: A001 Fugitives from the Anadarko Gas Processing and NGL Pump Replacement are authorized under a non registered Permit by Rule § 106.352 claim. EPNs: AFT-1, DT-1, LOT-1, EGT-1, MT-1 Tanks are authorized under a non registered Permit by Rule § 106.352 claim. EPN: EP-14 (Emergency Diesel Generator, 876 hours/year) is authorized under a non-registered Permit by Rule § 106.511 claim. EPN: LAB001 is authorized under a non- registered Standard Exemption 34. The EPNs are not authorized by this permit. The EPNs are shown for reference only.
- (7) EPN: EP-9 Heater is physically limited to 26 MMBtu/hr. Emission calculations are based on this limitation.
- (8) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (9) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
ETC Texas Pipeline, Ltd.
Authorizing the Construction and Operation of
Sunray Gas Plant
Located at **Sunray, Moore County, Texas**
Latitude 35° 57' 44" *Longitude* -101° 48' 60"

Permit: 20418 and PSDTX787M2

Revision Date: January 23, 2019

Expiration Date: March 21, 2027



For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)]¹
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources-- Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)] ¹
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. ¹

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit Numbers 20418 and PSDTX787M2

Emission Limits, Fuel Specifications, Plant Design, and Work Practices

1. This permit authorizes emissions only from those points listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and the facilities covered by this permit are authorized to emit subject to the emission rate limits on that table and other operating conditions specified in this permit. **(08/07)**
2. Opacity of emissions from the emission sources at the facility must not exceed 5 percent averaged over a six-minute period, except for those periods described in Texas Commission on Environmental Quality (TCEQ) 30 TAC § 111.111(a)(1)(E). The opacity shall be determined by the U.S. Environmental Protection Agency (EPA) Reference Method 9.
3. A copy of this permit shall be kept at the plant site and made available at the request of personnel from the TCEQ or any air pollution control agency with jurisdiction. In addition, the holder of this permit shall physically identify and permanently mark in a conspicuous location all equipment that has the potential of emitting air contaminants as follows:
 - A. The facility identification numbers as submitted to the Emissions Inventory Section of the TCEQ.
 - B. The emission point numbers as listed on the maximum allowable emission rates table.
4. These facilities shall comply with all requirements of EPA Regulations on Standards of Performance for New Stationary Sources promulgated for Equipment Leaks of Volatile Organic Compounds (VOC) from Onshore Natural Gas Processing Plants and Onshore Natural Gas Processing in Title 40 Code of Federal Regulations Part 60 (40 CFR 60), Subparts A, KKK, and LLL.
5. For purposes of minimizing the impact of emergency releases of hydrogen sulfide (H_2S) to the atmosphere, the holder of this permit shall install and maintain an ambient H_2S monitoring system consistent with the requirements of Rule 36 (051.02.02.036) of the Texas Railroad Commission and be capable of detecting ambient H_2S levels of 10 parts per million by volume (ppmv). If a leak is detected, every reasonable effort shall be made to commence repair of the leaking component as soon as possible but no later than 24 hours after detection. If repair must be delayed, the source shall be contained or isolated immediately.
6. This permit authorizes processing a maximum of 215 million dry standard cubic feet per day (MMSCFD) of gas from various inlet streams. Sour gas shall contain not more than 31,267.68 pounds per day by volume of total sulfur, calculated as H_2S and sampled on a daily basis. Sweet gas shall not contain more than 0.25 grains H_2S and 5 grains total sulfur per 100 dry standard cubic feet (DSCF), calculated as H_2S and sampled on a quarterly basis. Of the 215 MMSCFD, only 200 MMSCFD shall be routed downstream of the TEG Unit to the gas plant for processing. **(01/14)**
7. Flares shall be designed and operated in accordance with the following requirements: **(08/07)**
 - A. The flare systems shall be designed such that the combined assist natural gas and waste stream to each flare meets the 40 CFR § 60.18 specifications of minimum heating value and maximum tip velocity under normal, upset, and maintenance flow conditions.

The heating value and velocity requirements shall be satisfied during operations authorized by this permit. Flare testing per 40 CFR § 60.18(f) may be requested by the appropriate regional office to demonstrate compliance with these requirements.

- B. The flare shall be operated with a flame present at all times and/or have a constant pilot flame. The pilot flame shall be continuously monitored by a thermocouple or an infrared monitor. The time, date, and duration of any loss of pilot flame shall be recorded. Each monitoring device shall be accurate to, and shall be calibrated at a frequency in accordance with, the manufacturer's specifications
 - C. The flare shall be operated with no visible emissions except periods not to exceed a total of five minutes during any two consecutive hours. This shall be ensured by the use of air assist to the flare.
8. A tail gas clean up unit (TGPU) which achieves at least 98.5 percent sulfur recovery was installed and has been operating prior to September 25, 1994.
9. The minimum sulfur recovery efficiency for this permit shall be 98.5 percent during normal facility operations except as provided for in Special Condition No. 10. The sulfur recovery efficiency shall be determined on a 24-hour block average basis and calculation as follows and in accordance with 40 CFR 60.644(c): **(08/07)**

$$Efficiency = \frac{(S_{Recovered}) \times 100}{(S_{Acid\ Gas})}$$

Where:

Efficiency = Sulfur recovery efficiency, percent

$S_{Recovered}$ = $(S_{Acid\ Gas} - S_{Stack})$, pounds/hour (lb/hr)

$S_{Acid\ Gas}$ = Sulfur in acid gas stream, lb/hr

S_{Stack} = Sulfur in incinerator stack, lb/hr

10. In the event the TGPU is not operating, the sulfur recovery unit (SRU) is authorized to continue to process acid gas provided that 97.2 percent sulfur recovery is achieved and operation of the SRU independent of the TGPU does not exceed 175 hours per year (12 month rolling basis). In the event that the sulfur recovery plant and TGPU are not operating, the acid gas feed stream shall be routed to the plant flare. Acid gas flaring shall not exceed 336 hours per year (12-month rolling basis) and only if the H_2S feed rate to the flare does not exceed 1,385 lb/hr and there are no visible emissions from the flare.
11. The tail gas incinerator (TGI) shall be operated with not less than 3 percent oxygen (O_2) in the incinerator stack and not less than a 1100°F incinerator firebox exit temperature when waste gas is directed to it. The incinerator firebox exit temperature and O_2 level shall be continuously monitored and recorded. **(08/07)**
12. The temperature monitor shall be installed, calibrated at least annually, and maintained according to the manufacturer's specifications. The device shall have an accuracy of the greater of ±2 percent of the temperature being measured expressed in degrees Celsius or ±2.5°C. **(08/07)**

13. Under no circumstances shall the pressurized storage tanks associated with this facility vent directly to the atmosphere. Y-grade product tanks (1) shall vent to the raw condensate tanks. Raw condensate tanks (2) shall vent to the flare.

14. Piping, Valves, Connectors, Pumps, Agitators, and Compressors - 28M **(08/07)**

- A. These conditions shall not apply (1) where the VOC has an aggregate partial pressure or vapor pressure of less than 0.5 pounds per square inch, absolute (psia) at 100°F or at maximum process operating temperature if less than 100°F or (2)) where the operating pressure is at least 5 kilopascals (0.725 psi) below ambient pressure. Equipment excluded from this condition shall be identified in a list or by one of the methods described below to be made readily available upon request.

The exempted components may be identified by one or more of the following methods:

- (1) piping and instrumentation diagram (PID); or
 - (2) a written or electronic database.
- B. Construction of new and reworked piping, valves, pump systems, and compressor systems shall conform to applicable American National Standards Institute (ANSI), American Petroleum Institute (API), American Society of Mechanical Engineers (ASME), or equivalent codes.
- C. New and reworked underground process pipelines shall contain no buried valves such that fugitive emission monitoring is rendered impractical. New and reworked buried connectors shall be welded.
- D. To the extent that good engineering practice will permit, new and reworked valves and piping connections shall be so located to be reasonably accessible for leak-checking during plant operation. Difficult-to-monitor and unsafe-to-monitor valves, as defined by Title 30 Texas Administrative Code Chapter 115 (30 TAC Chapter 115), shall be identified in a list to be made readily available upon request. The difficult-to-monitor and unsafe-to-monitor valves may be identified by one or more of the methods described in subparagraph A above. If an unsafe to monitor component is not considered safe to monitor within a calendar year, then it shall be monitored as soon as possible during safe to monitor times. A difficult to monitor component for which quarterly monitoring is specified may instead be monitored annually.
- E. New and reworked piping connections shall be welded or flanged. Screwed connections are permissible only on piping smaller than two-inch diameter. Gas or hydraulic testing of the new and reworked piping connections at no less than operating pressure shall be performed prior to returning the components to service or they shall be monitored for leaks using an approved gas analyzer within 8 hours of the components being returned to service. Adjustments shall be made as necessary to obtain leak-free performance. Connectors shall be inspected by visual, audible, and/or olfactory means at least weekly by operating personnel walk-through.

Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve to seal the line so that no leakage occurs. Except during sampling, both valves shall be closed. If the removal of a component for repair or replacement results in an open-ended line or valve, it is exempt from the requirement to install a cap, blind flange, plug, or second valve for 24 hours. If the repair or replacement is not completed within 24 hours, the line or valve must have a cap, blind flange, plug, or second valve installed.

- F. Accessible valves shall be monitored by leak checking for fugitive emissions at least quarterly using an approved gas analyzer. Sealless/leakless valves (including, but not limited to, welded bonnet bellows and diaphragm valves) and relief valves equipped with a rupture disc upstream or venting to a control device are not required to be monitored. For valves equipped with rupture discs, a pressure-sensing device shall be installed between the relief valve and rupture disc to monitor disc integrity. All leaking discs shall be replaced at the earliest opportunity but no later than the next process shutdown.

A check of the reading of the pressure-sensing device to verify disc integrity shall be performed weekly and recorded in the unit log.

The gas analyzer shall conform to requirements listed in Method 21 of 40 CFR Part 60, appendix A. The gas analyzer shall be calibrated with methane. In addition, the response factor of the instrument for a specific VOC of interest shall be determined and meet the requirements of Section 8 of Method 21. If a mixture of VOCs is being monitored, the response factor shall be calculated for the average composition of the process fluid. If a response factor less than 10 cannot be achieved using methane, then the instrument may be calibrated with one of the VOC to be measured or any other VOC so long as the instrument has a response factor of less than 10 for each of the VOC to be measured.

- G. Except as may be provided for in the special conditions of this permit, all pump, compressor and agitator seals shall be monitored with an approved gas analyzer at least quarterly or be equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal. Seal systems designed and operated to prevent emissions or seals equipped with an automatic seal failure detection and alarm system need not be monitored. Seal systems that prevent emissions may include (but are not limited to) dual pump seals with barrier fluid at higher pressure than process pressure or seals degassing to vent control systems kept in good working order.

Submerged pumps or sealless pumps (including, but not limited to, diaphragm, canned, or magnetic-driven pumps) may be used to satisfy the requirements of this condition and need not be monitored.

- H. Damaged or leaking valves, connectors, compressor seals, agitator seals, and pump seals found to be emitting VOC in excess of 10,000 parts per million by volume (ppmv) or found by visual inspection to be leaking (e.g., dripping process fluids) shall be tagged and replaced or repaired. A first attempt to repair the leak must be made within 5 days. Records of the first attempt to repair shall be maintained. Every reasonable effort shall be made to repair a leaking component as specified in this paragraph within 15 days after the leak is found. If the repair of a component would require a unit shutdown, the repair may be delayed until the next scheduled shutdown. All leaking components which cannot be repaired until a scheduled shutdown shall be identified for such repair by tagging. At the discretion of the TCEQ Executive Director or designated representative, early unit shutdown or other appropriate action may be required based on the number and severity of tagged leaks awaiting shutdown.
- I. Records of repairs shall include date of repairs, repair results, justification for delay of repairs, and corrective actions taken for all components. Records of instrument monitoring shall indicate dates and times, test methods, and instrument readings. Records of physical inspections shall be noted in the operator's log or equivalent.
- J. Fugitive emission monitoring required by an applicable New Source Performance Standard (NSPS), 40 CFR Part 60, or an applicable National Emission Standard for Hazardous Air

Pollutants (NESHAPS), 40 CFR Part 61, may be used in lieu of Items F through I of this condition.

- K. Compliance with the requirements of this condition does not assure compliance with requirements of NSPS or NESHAPS and does not constitute approval of alternate standards for these regulations.

Natural Gas-Fired Engines

15. Fuel fired in the Superior 16SGTB and 8SGTB Clean Burn II Reciprocating Engines (Emission Point Nos. [EPN] EP-1 through EP-8) and the Direct-Fired Heater (EPN EP-9) is limited to pipeline-quality, sweet natural gas containing no more than 0.25 grains H₂S and 5.0 grain total sulfur per 100 DSCF. The use of any other fuel will require a modification to this permit.
16. The emissions from the lean-burn internal combustion reciprocating engines at this site are limited as follows:

Minimum Emission Unit	Air Contaminant	Full Load/Speed Emission Rate	Exhaust O ₂ Content
Ajax-Superior 16SGTB	Nitrogen Oxides (NO _x)	1.5 g/hp-hour 275 ppmvd	8.0 percent*
	Carbon Monoxide (CO)	1.6 g/hp-hour 450 ppmvd	8.0 percent*
	VOC	0.2 g/hp-hour 100 ppmvd	8.0 percent*
Ajax-Superior 8SGTB	NO _x	1.5 g/hp-hour 250 ppmvd	9.0 percent*
	CO	3.0 g/hp-hour 780 ppmvd	9.0 percent*
	VOC	0.2 g/hp-hour 100 ppmvd	9.0 percent*

* On a dry basis

All measured emission concentrations shall be reported on a dry basis corrected to the engine exhaust content noted above.

Continuous Determination of Compliance

17. The holder of this permit shall install, calibrate, and maintain a continuous emissions monitoring system (CEMS) to measure and record the in-stack concentration of sulfur dioxide (SO₂) and O₂ from the SRU incinerator stack. The holder of this permit shall also continuously monitor the parameters specified in 40 CFR § 60.646(a) and comply with the monitoring requirements specified in 40 CFR § 60.646(b)(2) or (3).
- A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements and the data analysis and reporting requirements specified

in the applicable Performance Specifications No. 1 through 6, 40 CFR Part 60, Appendix B. If there are no applicable performance specifications in 40 CFR Part 60, Appendix B, contact the TCEQ in Austin for requirements to be met.

- B. The system shall be zeroed and spanned daily, and corrective action taken when the 24-hour span drift exceeds two times the amounts specified in 40 CFR Part 60, Appendix B or as specified by the TCEQ if not specified in Appendix B. Zero and span is not required on weekends and plant holidays if instrument technicians are not normally scheduled on those days, unless the monitor is required by a subpart of New Source Performance Standards (NSPS) or National Emission Standards for Hazardous Air Pollutants, in which case zero and span shall be done daily without exception.

Each monitor shall be quality assured at least quarterly in accordance with 40 CFR Part 60, Appendix F, Procedure 1, Section 5.1.2. For Non-NSPS sources, an equivalent method approved by the TCEQ may be used.

- C. The monitoring data shall be reduced to hourly average concentrations at least once every day, using a minimum of four equally-spaced data points from each one-hour period. The individual average concentrations shall be reduced to units of the permit allowable emission rate in lb/hr at least once every week.

In order to determine SO₂ emissions in lb/hr, the CEMS should meet Performance Specifications 2 and 6 in Appendix B of 40 CFR Part 60.

- D. All monitoring data and quality-assurance data shall be maintained by the source for a period of two years and shall be made available to the TCEQ Executive Director or his designated representative upon request. The data from the CEMS may, at the discretion of the TCEQ, be used to determine compliance with the conditions of this permit.
- E. All cylinder gas audit exceedances of + 15 percent accuracy and any CEMS downtime shall be reported to the appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate TCEQ Regional Director.
- F. For NSPS sources subject to Appendix F, the appropriate TCEQ Regional Office shall be notified at least 30 days prior to each annual relative accuracy testing audit in order to provide them the opportunity to observe the testing.

Natural Gas-Fired Engines

- 18. In order to demonstrate that the emission limits specified in Special Conditions No. 1 and 16 are continuously met, the holder of this permit shall perform the following:
 - A. Conduct a quarterly evaluation of engine performance for each engine by measuring the NO_x, CO, and O₂ content of the exhaust. Emissions shall be measured and recorded in the as-found operating condition, except no compliance determination shall be established during start-up, shutdown, or under breakdown conditions. Emission rates shall be reported in ppmvd and corrected to the O₂ content listed in Special Condition No. 16 in brake-specific units of g/hp-hr and in units of lb/hr. The use of portable analyzers specifically designed for measuring the concentration of each contaminant in ppm is acceptable for this evaluation. A hot air probe or equivalent should be used with the portable analyzers to prevent introduction of error in results because of high stack temperatures. Three sets of measurements should be averaged to determine the concentrations. Any other method approved by the TCEQ

Regional Manager or the TCEQ Director of the Austin Air Quality Enforcement Division, Engineering Services Section is also acceptable.

- B. Reserved
- C. The quarterly testing required in Special Condition No. 18A shall be used for demonstrating continuous compliance with Special Condition Nos. 1 and 16.

Alternative Means of Control

- 19. The use of an infrared/ultraviolet (IR/UV) full spectrum analyzer for continuous monitoring of the H₂S concentration in the acid gas feed from the methyldiethanolamine sweetening unit in place of the daily Tutwiler method as required in 40 CFR Subpart LLL is allowed provided that the provisions of the Alternative Means of Control Plan (AMOC) approved by the Executive Director of the TCEQ on September 21, 2018 (AMOC 115) are followed. **(1/19)**
 - A. The IR/UV full spectrum analyzer and the Heated Acid Gas Sampling Probe shall be installed, calibrated, and maintained according to AMOC 115 and manufacturer recommendations, including, for example, spanning the analyzer at least monthly using approximately 20% H₂S with the balance being nitrogen.
 - B. The monitoring data shall be reduced to daily average concentrations, using a minimum of four equally-spaced data points from each hour of operation of each 24-hour day.

Recordkeeping Requirements

- 20. The holder of this permit shall make and maintain records of the following:
 - A. H₂S leak monitoring:
 - (1) Date and time of detection of a leak above 10 ppmv or as determined by the inspection.
 - (2) Date and time of action taken to identify the leak.
 - (3) Description of the leak, if found.
 - (4) Date and time of action taken to repair the leak.
 - (5) Description of the repair activities.
 - B. Daily flow rate of gas processing streams, daily total sulfur content of sour gas, calculated as H₂S and sampled on a daily basis, and quarterly sweet gas sampling results. **(01/14)**
 - C. Periods of downtime of the SRU, TGPU, or TGI including number of hours (date and time) and cause.
 - D. Hours of operation of the SRU without the TGPU.
 - E. Hours of operation of the flare.
 - F. Continuous measurements of the TGI firebox exit temperature and O₂ content.
 - G. Results of all quarterly compliance testing required in Special Condition No. 18A.

- H. All continuous monitoring data including hourly SO₂ and O₂ rates which are monitored pursuant to Special Condition No. 17 and H₂S rates monitored pursuant to Special Condition 19. **(1/19)**
- I. Records demonstrating compliance with Special Condition No. 19A. **(1/19)**

These records shall be maintained at the plant site on a rolling two-year retention basis following the date of such measurements, maintenance, reports, or records and shall be made available upon request to the Executive Director of the TCEQ or his designated representative.

Date: January 23, 2019

Emission Sources - Maximum Allowable Emission Rates

Permit Number 20418

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (8)
EP-1	CM-1 Reciprocating Engine	NO _x	8.27	36.21
		CO	8.82	38.62
		VOC	1.10	4.83
		SO ₂	0.01	0.05
		PM	0.18	0.78
EP-2	CM-2 Reciprocating Engine	NO _x	8.27	36.21
		CO	8.82	38.62
		VOC	1.10	4.83
		SO ₂	0.01	0.05
		PM	0.18	0.78
EP-3	CM-3 Reciprocating Engine	NO _x	8.27	36.21
		CO	8.82	38.62
		VOC	1.10	4.83
		SO ₂	0.01	0.05
		PM	0.18	0.78
EP-4	CM-4 Reciprocating Engine	NO _x	8.27	36.21
		CO	8.82	38.62
		VOC	1.10	4.83
		SO ₂	0.01	0.05
		PM	0.18	0.78
EP-5	CM-5 Reciprocating	NO _x	8.27	36.21

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (8)
	Engine	CO	8.82	38.62
		VOC	1.10	4.83
		SO ₂	0.01	0.05
		PM	0.18	0.78
EP-6	CM-6 Reciprocating Engine	NO _x	4.46	19.55
		CO	8.93	39.11
		VOC	0.60	2.61
		SO ₂	0.01	0.03
		PM	0.10	0.44
EP-7	CM-7 Reciprocating Engine	NO _x	4.46	19.55
		CO	8.93	39.11
		VOC	0.60	2.61
		SO ₂	0.01	0.03
		PM	0.10	0.44
EP-8	CM-8 Reciprocating Engine	NO _x	4.46	19.55
		CO	8.93	39.11
		VOC	0.60	2.61
		SO ₂	0.01	0.03
		PM	0.10	0.44
EP-9	Heater (7)	NO _x	1.56	6.83

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (8)
		CO	1.04	4.56
		VOC	0.13	0.57
		SO ₂	0.03	0.11
		PM	0.29	1.25
EP-10	Flare	NO _x	1.12	0.19
		CO	9.59	1.61
		VOC	0.04	0.01
		SO ₂	2,555.87	202.00
		H ₂ S	27.14	2.19
EP-11	SRU Incinerator	NO _x	0.43	1.88
		CO	2.50	10.95
		VOC	0.01	0.01
		SO ₂	38.50	168.63
		H ₂ S	0.04	0.18
		CS ₂	0.01	0.05
		COS	0.01	0.01
EP-11	SRU Incinerator (5)	NO _x	0.43	0.04
		CO	2.50	0.22
		VOC	0.01	0.01
		SO ₂	72.40	6.35
		H ₂ S	0.04	0.01
		CS ₂	0.01	0.01
		COS	0.01	0.01
EP-12	Tank Truck Loading	VOC	1.01	0.01

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (8)
EP-13	Auxiliary Boiler	NO _x	0.27	1.19
		CO	0.23	1.00
		VOC	0.02	0.07
		SO ₂	0.01	0.01
		PM	0.02	0.09
EP-14	Emergency Diesel Generator	NO _x	8.86	0.89
		CO	0.72	0.07
		VOC	0.23	0.02
		SO ₂	0.81	0.08
		PM	0.89	0.10
WT-2	Amine Wastewater Tank	VOC	0.21	0.01
WT-3	Slop Oil Tank	VOC	0.10	0.01
WT-4	MDEA Wastewater Tank	VOC	0.24	0.01
FUG	Fugitive (4)	VOC	3.481	15.245
		H ₂ S	0.02	0.07
A001	Fugitives, West Panhandle Separator Porus Media Filter (7/29/1993)(6)	VOC	0.09	0.38
		H ₂ S	0.01	0.01
A001	Fugitives, MDEA Flash Tank (11/14/1994)(6)	VOC	0.01	0.03
		H ₂ S	0.01	0.02
A001	Fugitives, 213 Aerial Cooler (3/24/1995)(6)	VOC	0.02	0.08
A001	Fugitives, Propane Aerial Cooler (05/05/1995)(6)	VOC	0.01	0.05
A001	Fugitives, Anadarko Gas Processing (8/1/2002)(6)	VOC	0.02	0.10

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (8)
A001	Fugitives, NGL Contactor (8/11/1999)(6)	VOC	0.01	0.01
EP-11	NGL Contactor (8/11/1999)(6)	SO ₂	2.15	9.40
A001	Fugitives, NGL Pump Replacement (8/1/2002)(6)	VOC	0.02	0.09
EP-10	Flare (dehy still, educator, Dermie Cold Box and MSS; 09/26/2014; PBR No. 51610)(6)	VOC	501.64	22.23
		SO ₂	1,154.51	24.89
		NOx	250.01	17.45
		CO	499.11	34.83
		H ₂ S	12.53	0.27
FUG	Fugitives, Flare (dehy, still, educator, Derime Cold Box and MSS; 09/26/2014; PBR No. 51610)(6)	VOC	0.08	0.36
AFT-1	Anitfoulant Tank (4/8/2002)(6)	VOC	0.01	0.01
DT-1	Diesel Tank (12/3/2002)(6)	VOC	0.01	0.01
PW-1	Parts Washer (11/14/2002)(6)	VOC	0.01	0.01
LOT-1	Lube Oil Tank (12/3/2002)(6)	VOC	0.01	0.01
EGT-1	Antifreeze Tank (12/3/2002)(6)	VOC	0.01	0.01
MT-1	Methanol Tanks (12/3/2002)(6)	VOC	0.04	0.15
LAB001	Lab Vent (3/1/1992)(6)	VOC	0.01	0.01
		H ₂ S	0.02	0.07

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (8)
EP-14	Emergency Diesel Generator(6)	NO _x	8.86	2.99
		CO	0.72	0.24
		VOC	0.23	0.08
		SO ₂	0.81	0.27
		PM	0.89	0.29

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
CO - carbon monoxide
H₂S - hydrogen sulfide
C₂S - carbon disulfide
COS - carbonylsulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emission rates for SRU Incinerator for those times when the TGPU is down and the SRU continues to process acid gas (limited to 175 hours per year on 12-month rolling basis) as outlined in Special Condition No. 10.
- (6) EPN: EP 10, EPN: FUG (Flare: dehy still, eductor, Derime Cold Box and MSS) are authorized under Permit by Rule Number 51610. EPN: EP-11 and EPN: FUG (NGL Contactor) are authorized under Permit by Rule Number 42106. EPN: A001 Fugitives from West Panhandle Filter Separator are authorized under Standard Exemption X23077. EPN: A001 MDEA Flash Tank and Fugitives are authorized under Standard Exemption X27053. EPN: A001 Fugitives from 213 Aerial Cooler are authorized under Standard Exemption X28862. EPN: A001 Fugitives from the Propane Aerial Cooler, are authorized under a non-registered Standard Exemption 66. EPN: PW-1 PartsWasher are authorized under a non-registered PBR Claim § 106.454. EPN: A001 Fugitives from the Anadarko Gas Processing and NGL Pump Replacement are authorized under a non registered Permit by Rule § 106.352 claim. EPNs: AFT-1, DT-1, LOT-1, EGT-1, MT-1 Tanks are authorized under a non registered Permit by Rule § 106.352 claim. EPN: EP-14 (Emergency Diesel Generator, 876 hours/year) is authorized under a non-registered Permit by Rule § 106.511 claim. EPN: LAB001 is authorized under a non- registered Standard Exemption 34. The EPNs are not authorized by this permit. The EPNs are shown for reference only.
- (7) EPN: EP-9 Heater is physically limited to 26 MMBtu/hr. Emission calculations are based on this limitation.
- (8) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (9) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: April 14, 2017